COMMENTS

The enclosed is responsive to the Examiner's Office Action mailed July 10, 2007. At the time the Examiner mailed the Office Action claims 1-34 were pending. By way of the present response the Applicant has: 1) amended claims 1-6, 8-11, 13, 14, 17-28, 30, 31, 34; 2) added new claims 35-43; 3) has canceled claims 12 and 29. As such, claims 1-11, 13-28 and 30-43 remain pending. The Applicant respectfully requests reconsideration of the present application and the allowance of claims 1-11, 13-28 and 30-43.

Informal Communication Between the Examiner and the Applicant

In mid July (it is believed) the Applicant left a voicemail for the Examiner requesting a negotiation of claim scope. The next day the Examiner left a voicemail message for the Applicant requesting that the Applicant send by facsimile proposed new claims. On July 25 the Applicant sent by facsimile to the Examiner the amendments included herein. On July 27 the Examiner left a voicemail for the Applicant asking for the Applicant to: 1) show support in the Applicant's specification for the amendments made to independent claims 1 and 18; 2) show support in the Applicant's specification for new claims 35-43; 3) state that new claim 35 does not require restriction. The response being filed herewith is both a response to the Examiner's 7/27/07 voicemail as well as a response to the Office Action mailed 7/10/07.

Amendments

The Applicant has provided amendments herewith to advance the progress of the present application towards allowance. The Applicant believes the claims of the present application have been in allowable form since at least November 2, 2006 for at least those reasons stated in the Applicant's Office Action responses filed 11/2/06 and 4/16/07. Therefore, narrowing amendments made at least with and after the 11/2/06 filing, including the present amendments, have not been made for reasons pertaining to patentability. The corresponding added claimed subject mater should therefore be given its full scope under the doctrine of equivalents.

Support For Amendments

Support for the present amendments are provided immediately below within a parenthetical associated with each claim element. The Examiner's attention is drawn to Figure 4B of the present application. Claim 1 presently recites:

1. (Currently Amended) A method, comprising:

   in an object oriented run-time environment, after a class has been loaded:

   (*Fig. 4B shows existing objects 401, 402. In order for these objects to exist, their corresponding class file(s) must have been loaded*)

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a) invoking a second method from a first method, said first method
   belonging to said class, said invoking comprising providing an
   identification of said first method and said class (*The dotted line of Fig.
   4B which indicates the run-time flow shows first method (method_1
   405), for example from entry 409, invoking a second method within the
   dispatch unit 430 (the application specifically discusses examples of
   the dispatch unit's 'second method' as .entry and .exit methods at
   paras. [0081] - [0086] in reference to Fig. 6a which shows .entry and
   .exit methods in blocks 643a and 645a, respectively). An example of
   the invocation of the 'second method' in which the identity of the first
   method and its class is provided to the dispatch unit is shown in Fig.
   5a ("IDENTITY" 1) and is discussed in the first sentence of para.
   [0071]*);

b) identifying a plug-in module for said first method based upon said
   identification, said plug-in module containing a handler method (*The
   dotted line of Fig. 4B from entry 409 shows the run-time flow hopping
   to plug-in A 460 after invocation of the dispatcher 430; Fig. 5A shows
   a more specific example of the identification of a plug-in by a
   dispatcher*) ;

c) executing said handler method to report and/or record information
   about said first method (*Fig. 4B shows the run time flowing to handler
   461; Fig. 5A shows actual execution of the handler.*); and-

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d) <u>executing said first method from a point beyond where said second</u>

<u>method was invoked</u> (*According to the dotted line of Fig. 4B, the*

runtime flow returns to point beyond the initial dispatcher invocation at

point 409);

e) <u>flowing from said first method to a third method</u> (*The dotted line of Fig*

4B eventually exist object 1 401 and enters object 2 402);

f) <u>invoking said second method from said third method, said invoking</u>

<u>including providing an identification of said third method and a second</u>

<u>class that said third method is a part of</u> (*Steps f) through I) essentially*

recite steps a) - d) except that a ' third method' invokes the dispatcher

430 . . . According to the example being discussed with reference to

Fig. 4B, the 'third method' can be viewed as method_2 406 which at

point 410 would use the same .entry method of the dispatcher (which

is the 'second method' in this claim according to this example). . . Note

that Fig 4B shows the same plug-in and handler being used for

method_1 405 as for method_2 402);

g) <u>identifying said plug-in module for said third method based upon said</u>

<u>third method and second class identification;</u>

h) <u>executing said handler method to report and/or record information</u>

<u>about said third method; and,</u>

i) <u>executing a portion of said third method from a point beyond where said</u>

<u>second method was invoked from said third method.</u>

<u>Support For New Claims 35-41</u>

New claim 35 is essentially a claim covering a structure that can perform the method recited in claims 1 and 18. The same references to Fig. 4B and 5A as provided just above can be applied to claim 35 as provided immediately below. New claim 35 recites:

35. (new) A computing system, comprising:

a first classfile (*The present application is directed to the modification of classfiles whose corresponding objects invoke a dispatcher. See, for example, Fig. 6B which shows a classfile 650b whose corresponding methods 651b, 652 are instrumented in regions 654, 655, 643b, 644b, 645b and 646b. See also, e.g., paras. [0090] - [0094]*);

a dispatcher, said dispatcher having a dictionary (*Fig. 4B shows a dispatcher 430. Fig. 7 shows an embodiment of the dispatcher's dictionary. See also, e.g., paras. [0097] - [0101].*);

a first object manufactured from said classfile, said first object having a first method, said first method instrumented with first program code to invoke a second method executed by said dispatcher, said first program code written to identify said classfile and said first method to said dispatcher as part of said invoking, said first program code located proximate to said first method's entry point (*The dotted line of Fig. 4B which indicates the run-time flow shows first method (method_1 405), for example from entry 409, invoking a second method*

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within the dispatch unit 430 (the application specifically discusses examples of the dispatch unit's 'second method' as .entry and .exit methods at paras. [0081] - [0086] In reference to Fig. 6a which shows .entry and .exit methods in blocks 643a and 645a, respectively). An example of the invocation of the 'second method' in which the identity of the first method and its class is provided to the dispatch unit is shown in Fig. 5a ("IDENTITY" 1) and is discussed in the first sentence of para. [0071]. Returning to Fig. 4B, region 409 represents the instrumentation bytecode placed near the entry point of method_1 405. Fig. 6A shows a more detailed example of instrumentation bytecode 643a,b placed near a method's entry point);

a plug-In, said plug-in having a handler, said handler having program code to report and/or record information about a method that invokes said dispatcher, said dispatcher's dictionary correlating said first method and said classfile with said plug-in (The dotted line of Fig. 4B from entry 409 shows the run-time flow hopping to plug-in A 460 after invocation of the dispatcher 430; Fig. 5A shows a more specific example of the identification of a plug-in by a dispatcher. Fig. 7 and its corresponding discussion from [0097] - [0101] discusses correlation between method and classfile identification with a plug-in);

a second classfile (Again, the present application is directed to the modification of classfiles whose corresponding objects invoke a dispatcher. See, comments above for first classfile. Clearly, as presented in the application, classfile modification is expected to be applied to more than one classfile);

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a second object manufactured from said second classfile, said second

object having a third method, said third method instrumented with second

program code to invoke said second method executed by said dispatcher, said

second program code written to identify said second classfile and said third

method to said dispatcher as part of said third method's invoking of said

dispatcher, said second program code located proximate to said third method's

entry point, said dispatcher's dictionary correlating said third method and said

second classfile with said plug-in (*See, discussion above for first object. Note

that, according to the example of Fig. 4B, the 'third method' can be viewed as

method_2 406 which at point 410 would use the same .entry method of the

dispatcher (which is the 'second method' in this claim according to this example).

. . Note also that Fig 4B shows the same plug-in and handler being used for

method_1 405 as for method_2 402).*

Claim 35 Does Not Require Restriction

As seen in the analysis provided just above, claim 35 merely recites

structure capable of performing the method of claims 1 and 18.   Therefore claim

35 does not need to be restricted from the present application.

Closing Comments

Because the Applicant has demonstrated the patentability of all pending independent claims, the Applicant respectfully submits that all pending claims are allowable. The Applicant's silence with respect to the dependent claims should not be construed as an admission by the Applicant that the Applicant is complicit with the Examiner's rejection of these claims. Because the Applicant has demonstrated the patentability of the independent claims, the Applicant need not substantively address the theories of rejection applied to the dependent claims.

In the further interests of efficiency, the Applicant reserves the right under MPEP 2144.03.C to cause the Examiner to find in the prior art subject matter to which the Examiner has taken Official Notice at a later time in the prosecution of the present case when the subject matter of such prior art is actually at issue.

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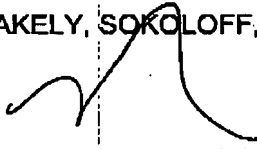
CONCLUSION

For the reasons provided above, the Applicant respectfully submits that the current set of claims is allowable. If the Examiner believes an additional telephone conference would expedite or assist in the allowance of the present application, the Examiner is invited to call Robert B. O'Rourke at (408) 720-8300.

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: _8/1_, 2007

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